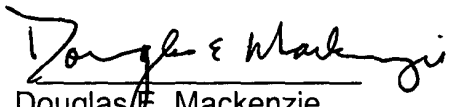


CONCLUSION

Applicant respectfully requests entry of the above amendment and submits that no new matter has been added thereby.

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MARKED-UP VERSION TO SHOW CHANGES

SPECIFICATION

5 BRIGHTNESS DIFFERENCE ORNAMENTAL SCREEN WITH
MULTI-FUNCTION

CROSS REFERENCE TO RELATED APPLICATIONS

10 [0001] The present application claims priority under 35 USC
365(a) from PCT/CN00/00731, filed December 26, 2000.

BACKGROUND OF THE INVENTION

15 1. FIELD OF THE INVENTION

[0002] The present invention relates to an ornamental screen,
and more particularly to a multi-function ornamental screen which
can display or hide its [inside] contents and has [multi] multiple
20 functions as an ornamental picture, a mirror, a compound of an
ornamental picture and a mirror through which a brightness
contrast changes a reflective light or transmissive light.

2. DESCRIPTION OF THE RELATED ART

25

[0003] A conventional ornamental screen has a single
[ornament] ornamental function. In some occasions, however,
such as were there is a secret map or important information
picture, a curtain is often set up in front of the secret map or
30 important information picture to keep the secrets properly. Lift

up the curtain when the ornamental screen is in use, and pull on the curtain when the ornamental screen is not in use. However, it can not keep the secrets very well [by] in this manner [way].

5 [0004] In addition, a television is always put outside in a family room or in a hotel at present, which [need to occupy] occupies a great space [many spaces]. If the television is wanted to inlay a decorative thing (such as a wall, a cupboard), there is not yet a suitable ornamental screen which has functions as an ornament, as well as displays information on the television screen
10 [now].

[0005] U.S. Pat. No. 5,956,181 to William Lin [disclosed] discloses a dual-function mirror which has functions as a rearview
15 mirror and a video display unit. The dual-function mirror works with a camera for the [in an] automobile. When a displayer of the mirror is [does] not on [work], it is a conventional rearview mirror which can observe the rear situations of the automobile conveniently. When the displayer is on [works], its [inside]
20 contents can be displayed as various kinds of needed picture information through the mirror. However, the structure of the dual-function mirror can only make the picture and the mirror convert into each other, which has a limited application.

25 SUMMARY OF THE INVENTION

[0006] Accordingly, an object of the present invention is to provide a brightness difference ornamental screen with multi-function which [has] functions as an ornament, as well as
30 displays contents behind the ornamental layer and has multiple

purposes [dual-purpose] and utilizes space [utilize spaces] sufficiently, while its structure is simple and purpose is widespread.

5 [0007] To achieve the above object, a brightness difference ornamental screen with multi-function in accordance with preferred embodiments of the present invention comprises an ornamental layer. The ornamental layer may be [is] set up in front of a [light] display member. The [light] display member is
10 connected to a control device for controlling the [light] display member.

[0008] The ornamental layer may be [is] a translucent [semi-transparent] pattern. The [light] display member is a light
15 source. There are contents to be displayed behind the ornamental layer. The control device is a key or a touch switch or an electronic switch to make the light source turn on/off.

[0009] The light display member [is set up] in an ornamental
20 screen [and is] may be a display screen of a computer, an electronic device or a television. The ornamental layer may be [is] a translucent [semi-transparent] ornamental picture.

[0010] The ornamental layer may be [is] a translucent
25 [semi-transparent] pattern made by laser craft, or a metallization membrane or [plated membrane made in] coating or polishing or texturing or printing methods [ways].

[0011] A plurality of display members may be [is] set up

behind [in] the ornamental layer.

[0012] The ornamental layer may be [is] a reflective mirror or a pattern added to a partial mirror or a compound of a pattern
5 and a mirror.

[0013] The [light] display member may be [is] a display screen of a Beep-Pager or a cellular phone, or a palmtop computer or an electronic dictionary or an instant translator or a computer.
10

[0014] A transparent plate or bracket for protecting the inside contents may be [is] set up nearby [inside] the ornamental layer.

[0015] A case may be [is] provided outside the ornamental
15 layer and a display screen, a lens and a reflective mirror may be [is] installed nearby [in front of] the display screen. The ornamental layer may be [is] set up on the case. A [light] display member has [light] display contents and may be [is] set up nearby [inside] the translucent [semi-transparent] ornamental
20 layer. An outside switch may control the [The] light or dark of the [light] display member [is controlled by an outside switch]. The display contents are [inserted in or taken out] insertable from an opening of the case.

25 [0016] The [semi-transparent] translucent ornamental layer may be [is] a single layer integral structure made from translucent [semi-transparent] materials or a compound layer structure made of transparent mirror stuck to a translucent [semi-transparent] membrane. The [light] display member nearby [inside] the
30 translucent [semi-transparent] ornamental layer may be [is] a light

source or a light source and added [a] lens or an electronic
displayer having functions of light and display.

[0017] The translucent [semi-transparent] ornamental layer
5 may be [is] an integral ornamental layer wholly [whole] enclosed
in a [the] case and/or installed at an opening or a partial
ornamental layer enclosed in the case and/or installed at the
opening.

10 [0018] Size scales showing the volume and position of the
reflective objects may be [are] marked on the translucent
[semi-transparent] ornament layer or displayed on an electronic
display screen.

15 [0019] A display piece or display screen with [having]
information display contents may be [is] set up in front of or
backside of a light direction of the light source.

[0020] The ornamental screen of the present invention has
20 characters of partly reflective light or interdictive light, thus it
may have [has] functions of decorating, keeping secrets and the
like [etc.], and may have [has] transmissive functions which
display inside information contents through the ornamental screen
while its [inside] light source or electronic displayer is on [works].
25 The ornamental screen of the present invention can accomplish a
plurality of functions and has multiple purposes. [multi-purpose;
The ornamental screen of the] According to this present invention,
[can put] a television can be put into a wall in a family room,
hotel or hospital, and [etc.] the like, and the ornamental screen

can be set up in front of the television, it [has] functions as an ornament and displayer of television contents. [displays information on the television display screen at front of the television.] The ornamental screen of the present invention can
5 save a lot of occupations and beautify the environments. When the television is off [does not work], the ornamental screen looks like a picture or a mirror. When the television is on, pictures are displayed on the ornamental screen.[:] When the ornamental screen of the present invention is used as an
10 ornamental screen of a Beep-Pager or cellular phone or PDA [palmtop] computer, instant translator or notebook, it can especially meet a women's dressing demand, which needn't hand-carry a dressing mirror.[:] An ornamental mirror, which is installed on a visor of the car, has multiple [in a sunshading board
15 in an automobile has dual] purposes of a dressing mirror and an electronic displayer.[:] The ornamental screen of the present invention can attain a complete design, e.g., buttons and patterns are distributed on the ornamental screen. When the ornamental screen is on [works], only the partial screen with [inside parts
20 having] patterns will display its [inside] contents, and the others will keep consistent. It makes the whole screen match pretty well. [for the light, while the other parts are not changed yet, which make its appearance beautiful:] The ornamental screen of the present invention has simple structures, convenient utility and
25 widespread purpose.

[0021] Other objects, advantages and novel features of the

present invention will be drawn from the following detailed descriptions of preferred embodiments of the present invention with the attached drawings, in which:

5 BRIEF DESCRIPTION OF THE DRAWINGS

[0022] FIG. 1 is a perspective view showing a general structure of a brightness difference ornamental screen with *multi-function in accordance with the present invention;*

10

[0023] FIG. 2 is a front view of a brightness difference ornamental screen with multi-function in accordance with a first preferred embodiment of the present invention;

15 [0024] FIG. 3 is a side sectional view of the brightness difference ornamental screen with multi-function of FIG. 2;

[0025] FIG. 4 is a side view of a brightness difference ornamental screen with multi-function in accordance with a
20 second preferred embodiment of the present invention;

[0026] FIG. 5 is a front view of a brightness difference ornamental screen with multi-function in accordance with a third preferred embodiment of the present invention;

25

[0027] FIG. 6 is a front view of a brightness difference ornamental screen with multi-function in accordance with a fourth preferred embodiment of the present invention;

[0028] FIG. 7 is a side view of the brightness difference
ornamental screen with multi-function of FIG. 6;

[0029] FIG. 8 is a perspective view of a brightness difference
5 ornamental screen with multi-function in accordance with a fifth
preferred embodiment of the present invention;

[0030] FIG. 9 is a perspective view of a brightness difference
ornamental screen with multi-function in accordance with a sixth
10 preferred embodiment of the present invention;

[0031] FIG. 10 is a side sectional view of a brightness
difference ornamental screen with multi-function in accordance
with a seventh preferred embodiment of the present invention;

15

[0032] FIG. 11 is a side sectional view of a brightness
difference ornamental screen with multi-function in accordance
with a eighth preferred embodiment of the present invention;

20 [0033] FIG. 12 is a side sectional view of a brightness
difference ornamental screen with multi-function in accordance
with a ninth preferred embodiment of the present invention;

[0034] FIG. 13 is a perspective view of a brightness
25 difference ornamental screen with multi-function in accordance
with a tenth preferred embodiment of the present invention;

[0035] FIG. 14 is a perspective view of a brightness
difference ornamental screen with multi-function in accordance
30 with a eleventh preferred embodiment of the present invention;

and

[0036] FIG. 15 is a side sectional view of a brightness
difference ornamental screen with multi-function in accordance
5 with a twelfth preferred embodiment of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0037] Structures and work principles of a brightness
10 difference ornamental screen with multi-function of the present
invention will be described in its preferred embodiments.

[0038] Referring to FIG. 1, a brightness difference
ornamental screen with multi-function in accordance with the
15 present invention comprises an ornamental layer 1, a [light]
display member 2 and a control device 3 for controlling the [light]
display member. The control device 3 may be [is] connected to
the [light] display member 2. The ornamental layer 1 may be [is]
provided nearby [in front of] the [light] display member 2. The
20 ornamental layer 1 can hide or display images or contents in the
ornamental screen depending on light situations of the [light]
display member 2 through transmitted lights, reflected lights or
interdicted lights.

25 [0039] FIGs. 2 and 3 show a first preferred embodiment of
the present invention. The ornamental layer may be [is] a
translucent [semi-transparent] ornamental pattern 11 like a picture
made by laser technology (Prior Art, not stated again). The
[light] display member is a light source 21. Contents to be
30 displayed 4 are set up behind the ornamental pattern 11. The

contents 4 can be maps or drawings needed to be kept secret, or the like. The control device 31 may be [is] a special controller to make the light source 21 turn light or opaque. When the ornamental screen is used in a secret occasion, the inside contents
5 4, such as secret maps or important information pictures, can't be seen because of a reflective light character of a surface of the ornamental pattern 11. While the [light] display member or the other light source is turned on, contents 4 to be displayed can be clearly seen by utilizing a transmissive light character of the
10 ornamental pattern 11.

[0040] FIG. 4 shows a second preferred embodiment of the present invention. The [light] display member provided in a wall 7 may be [is] a display screen 22 of a computer, an electronic
15 device or a television. The ornamental layer is a translucent [semi-transparent] ornamental picture 12. The control device for the [light] display member is a display screen switch of a computer, an electronic device or a television. When the switch is off, an ordinary ornamental picture, a mirror or a compound
20 pattern of the ornamental picture and the mirror appears in front of the display screen. A picture or a mirror can be seen, while the contents behind the ornamental layer are [is] not [can be] seen clearly. When the switch is on, pictures in the computer, or electronic device or television can be displayed clearly on the
25 ornamental layer nearby [in front of] the display screen. The ornamental screen can be widely applied in public places such as an advertisement field for advertisements, a bank for payment, a supermarket place for information inquiry, or other places for beautification or decoration, and the like [etc.]. It also can be used
30 in a medical institution for guardianship, test equipment, a xenic

sanitation, or in a house, hotel or restaurant, which not only produces a beautiful view, but also greatly saves occupations.[] Especially when it is used outdoors, the ornamental screen provides a protection function such as seal of dustproof, waterproof and shielding the sunshine and an ornament function. At the same time it does not influence on the normal image display functions.

[0041] The ornamental layer of the present invention can be a surface-managed film, a special film, or a pattern made by laser craft, or a metallized membrane, plated membrane having half reflective light and half transmissive light characters made by such ways as polishing, texturing, printing, or the like, or a translucent [semi-transparent] anti-counterfeit mark or an ornamental membrane made by controlling the manufacture craft as requirement to obtain the needed light reflectivity and transmissive light ratio, or the like. The not-good transparent materials or transparent materials mixed with impurities having reflective light and transmissive light functions are also a suitable selection, for example a medium mirror made of smoke color glass.

[0042] FIG. 5 shows an ornamental screen in accordance with a third preferred embodiment of the present invention. A plurality of [light] display members 25 having different shapes or different types may be [is] installed in an ornamental layer 15. The ornamental screen can be used in many occasions.

[0043] FIGs. 6 and 7 show a fourth preferred embodiment of the present invention. The ornamental layer may be [is] a

reflective mirror or a pattern added to a partial mirror or a compound of a pattern and a mirror 13. The light display member may be [is] a display screen 23 of a Beep-Pager, a cellular phone 5, a palmtop computer, an electronic dictionary, an instant translator or a computer. The control device for the [light] display member may be [is] a display screen switch 33 of the Beep-Pager, cellular phone 5, palmtop computer, electronic dictionary, instant translator or computer. When the display screen switch is off, the ornamental layer is a reflective mirror, which can be used as a dressing mirror by a user, especially by a woman. When the display screen switch is on, the ornamental layer has a transmissive light character, which can clearly display the contents in the Beep-Pager, cellular phone or palmtop computer, thus the ornamental screen has many increased functions.

[0044] A translucent [semi-transparent] membrane having a reflective light and transmissive light character may be coated [is plated] or glued on a surface of the reflective mirror 13, which can be manufactured in the [by] following ways.[:] An original reflective light membrane of the mirror may be changed [is change] into a semi-transmissive light membrane. An original surface of the main body (such as glass, transparent plastics or ordinary materials having needed reflective light surface) of the mirror may be plated with [is plated] a thin membrane (such as aluminum membrane, silver membrane) having a reflective light and transmissive light character, or a thin film made from materials having reflective light and transmissive light character glued a film having a reflective light and transmissive light character. The surface of the mirror can also be materials which

are not good transparent or transparent materials mixed some impurities, which make the ornamental screen have functions of reflective light and transmissive light (such as medium mirror made from smoke color or the like).

5

[0045] FIG. 8 shows a fifth preferred embodiment of the present invention. A transmissive plate or bracket 6 for protecting inside contents 24 may be [is] installed in an ornamental layer 14. When brightness of a [an inside] light source 34 is dark, the transmissive plate 6 with an ornamental layer shows a reflective light or an interdictive light character. When the [inside] light source 34 is bright, the transmissive plate 6 shows a transmissive light character, for example exhibition platform in the museum or exhibition cupboard in a marketplace.

15

[0046] FIG. 9 shows a sixth preferred embodiment of the present invention. An ornamental layer 16 and a display screen 26 are installed in a case 8. A lens 10 and a reflective mirror 9 are installed in front of the display screen 26. For example, screens of a rear-projection type cinema or a rear-projection type large-screen television are no longer a single white or dark color and usually are a beautiful picture, which can beautify the environments. The display member can transmit images through the ornamental layer as a screen.

25

[0047] FIGs. 10, 11, 12, 13, 14 and 15 respectively show a seventh, eighth, ninth, tenth, eleventh and twelfth preferred embodiments of the present invention. An ornamental layer 17 may be [is] installed in a case 10. The ornamental layer 17 may be translucent. [is semi-transparent.] A [light] display member

30

27 having display contents 37 may be [is] installed nearby [inside
of] the ornamental layer 17. [Bright or dark of the light] An
outside switch may control brightness or darkness of the display
member 27, [is controlled by an outside switch.] The display
5 contents 37 are inserted in or taken out from an opening 47 of the
case 10. Referring to FIGs. 11 and 12, the display piece or
display screen can be inserted or changed from the opening 47 of
the case 10. The display piece or display may be [is] generally
made of a transparent or translucent [semi-transparent] film or
10 membrane.

[0048] The translucent [semi-transparent] ornamental layer
17 may be [is] a single layer integral structure made from
translucent [semi-transparent] materials or a compound layer
15 structure made of a transparent mirror 57 and a translucent
[semi-transparent] membrane stuck to the transparent mirror 57.
Referring to FIGs. 11 to 14, the [light] display member nearby
[inside] the translucent [semi-transparent] ornamental layers 17
may be [is] a light source or a light source added a lens 67 or an
20 electronic displayer having functions of light and display.

[0049] Referring to FIGs. 11 and 12, a display piece or
display screen 77 having information display contents may be [is]
provided in the case 10 installed between the light source and the
25 translucent [semi-transparent] ornamental layer.

[0050] Referring to FIGs. 10 to 14, the translucent
[semi-transparent] ornamental layer 17 fully [full] enclosed in the
case 10 may be [is] an integral ornamental layer installed at an
30 opening 87 or the translucent [semi-transparent] ornamental layer

17 enclosed in the case 10 may be [is] a partial ornamental layer
installed at the opening 87.

[0051] Referring to FIG. 14, size scales 97 are marked on the
5 translucent [semi-transparent] ornamental layer showing a volume
and position of a reflective object.

[0052] Referring to FIG. 11 or 15, the display piece or display
screen having information display contents may be [is] installed
10 nearby [in front of or backside of] a light direction of the light
source.

[0053] The present invention can also be used in an
automobile rearview mirror₁[. The followings are detailed
15 descriptions:] The details are as follows: A rear view mirror
only having rear view function is changed into a dual-function
mirror as a rear view mirror and a video displayer. Information
such as maps, way maps, or the like or an electronic displayer can
be freely put in the mirror. Usually when there is no light in the
20 mirror, the mirror is an ordinary rear view mirror. When the
light [there] is off, it will be a normal [light in the mirror,
information in the mirror is can be seen. Making the inside
mirror light or not can change the functions of the] rear view
mirror.

25

[0054] The characteristics of this [automobile] rear view
mirror are as follows [has benefits]:

[0055] First, the driver can attain more information (such as
30 maps, time tables, way maps, suggestive information put in

advance and pictures shown on an electronic displayer from a video camera, and scenes behind the automobile, and the like [etc.]) from the rear view mirror without his habits changed and his attention dispersed.

5

[0056] Second, the installation position and basic structure of the transmissive and reflective light rear view mirror is just replaced of the original ordinary rear view mirror's, thus it can not cause the driver and passengers to have burdensome senses
10 and insecurity senses for the increased new things in automobile.

[0057] Third, the switch is controlled artificially. The driver can choose to use it as a transmissive and reflective light mirror seeing the inside information or as an ordinary rear view mirror at
15 any time in necessary.

[0058] Fourth, the light area inside the mirror can be changed to make the mirror into a whole transmissive and reflective light mirror or a partial transmissive and reflective light mirror (see
20 FIG. 14).

[0059] Fifth, the reflective way which the light source is put in front of the display screen (see FIG. 15) can be attained.

25 [0060] This transmissive and reflective light mirror has three working status [work states]: ordinary reflective light [rear view mirror], reflective mirror [light] added pictures, and all the display pictures.[:] When the transmissive and reflective [light] mirror works as an electronic rear view mirror made from
30 electronic displayer, scales showing the width and height of an

automobile are marked on the opposite area of the display medium mirror, thus to benefit the driver judging the relative position of the automobile and the other outside objects (see FIG. 14).

5

[0061] This rear view mirror can be made into several structure forms,[:] direct light and picture way, see FIG. 11, projective picture way, see FIG. 12, electronic display way, see FIG. 13.

10

[0062] An electronic display screen can also be put in a dressing mirror of a sunshading board of the automobile, the original mirror may be [is] changed into the translucent [semi-transparent] and half reflective light ornamental screen of
15 the present invention, which it is still a dressing mirror in normal, and the display contents can be seen when the electronic display screen works.

[0063] While the present invention has been illustrated by the
20 descriptions of the preferred embodiments thereof, and while the embodiments has been described in considerable detail, it is not intended to restrict or in any way limit the scope of the appended claims to such detail. Additional advantages and modifications within the spirit and scope of the present invention will readily
25 appear to those skilled in the art. Therefore, the present invention is not limited to the specific details and illustrative example shown and described.

What is claimed is:

1 1. A brightness difference ornamental screen with multi-function
2 comprising:
3 an ornamental layer;
4 a [light] display member;
5 a control device for controlling the display member; and
6 wherein the ornamental layer may be [is] set up in front of the
7 [light] display member[,] and the [light] display member may
8 be [is] connected to the control device [for controlling the light
9 display member].

1 2. The ornamental screen as claimed in claim 1, further
2 comprising contents to be displayed behind the ornamental
3 layer and wherein the ornamental layer comprises [is] a
4 translucent [semi-transparent] pattern, the [light] display
5 member comprises [is] a light source, [there are contents to be
6 displayed behind the ornamental layer,] and the control device
7 is a key or a touch switch or an electronic switch to make the
8 light source turn on/off.

1 3. The ornamental screen as claimed in claim 1, wherein the
2 [light] display member may be [is] set up in an ornamental
3 object [thing], the [light] display member comprises [is] a
4 display screen of a computer, an electronic device or a
5 television, and the ornamental layer comprises [is] a
6 translucent [semi-transparent] ornamental picture.

1 4. The ornamental screen as claimed in claim 1, wherein the
2 ornamental layer comprises [is] a translucent [semi-transparent]

3 pattern made by laser craft, or a metallization membrane or
4 coating [plated membrane made] or polishing or texturing or
5 printing ways.

1 5. The ornamental screen as claimed in claim 1, further
2 comprising [wherein] a plurality of display members [is] set up
3 behind [in] the ornamental layer.

1 6. The ornamental screen as claimed in claim 1, wherein the
2 ornamental layer comprises [is] a reflective mirror or a pattern
3 added to a partial mirror or a compound of a pattern and a
4 mirror.

1 7. The ornamental screen as claimed in claim 6, wherein the
2 [light] display member comprises [is] a display screen of a
3 Beep-Pager or a cellular phone, or a palmtop computer or a
4 electronic dictionary or an instant translator or a computer.

1 8. The ornamental screen as claimed in claim 1, further
2 comprising [wherein] a transparent plate or bracket for
3 protecting an [the] inside contents disposed adjacent [is set up
4 inside] the ornamental layer.

1 9. The ornamental screen as claimed in claim 1, further
2 comprising [wherein] a case disposed [is provided] outside the
3 ornamental layer and a display screen, a lens and a reflective
4 mirror being [is] installed in front of the display screen.

1 10. The ornamental screen as claimed in claim 1, further
2 comprising a case upon which [wherein] the ornamental layer

3 is set up [on the case], the [light] display member comprising a
4 [has] light display contents, which are disposed nearby [is
5 installed inside] the ornamental layer, the light or dark of the
6 [light] display member being controllable [is controlled] by an
7 outside switch, the display contents being insertable [are
8 inserted in or taken out] from an opening of the case.

1 11. The ornamental screen as claimed in claim 1, wherein the
2 translucent [semi-transparent] ornamental layer comprises [is]
3 a single layer integral structure made from translucent
4 [semi-transparent] materials or a compound layer structure made
5 from transparent mirror stuck to a translucent
6 [semi-transparent] membrane, the [light] display member being
7 disposed nearby [inside] the ornamental layer, and the display
8 member comprising [is] a light source, [or a] the light source
9 having [added] a lens or an electronic display device having
10 functions of light and display.

1 12. The ornamental screen as claimed in claim 1, wherein the
2 ornamental layer comprises [is] an integral ornamental layer
3 wholly [whole] enclosed in a [the] case and installed at an [the]
4 opening in the case or a partial ornamental layer enclosed in
5 the case and installed at the opening.

1 13. The ornamental screen as claimed in claim 1, wherein size
2 scales showing a [the] volume and a position of [the] reflective
3 objects are marked on the ornamental layer or displayed on an
4 electronic display screen.

1 14. The ornamental screen as claimed in claim 1, further

2 comprising [wherein] a display piece or display screen having
3 information display contents is installed in front of or backside
4 of the light direction of a [the] light source.

ABSTRACT

[0064] A brightness difference ornamental screen with multi-function includes an ornamental layer, a [light] display member and a control device for controlling the [light] display member. The ornamental layer may be [is] set up in front of the [light] display member. The [light] display member is connected to the control device. The ornamental layer may be [is] a translucent [semi-transparent] pattern. The [light] display member may be [is] a light source. There are contents to be displayed behind the ornamental layer. The control device may be [is] a key or a touch switch or an electronic switch to make the light source turn on/off. The ornamental screen has functions as an ornament, as well as displays contents behind the ornamental layer. The ornamental screen has dual-purpose and may utilize space sufficiently, while its structure is simple and purpose is widespread.